stoppage breaks the seal. Frozen water lines in winter frequently cause the superintendent to consign the plant to the tropical regions, particularly when they occur on a cold Sunday morning. Water vapor absorbed by the flue gases reduces not only their temperature, but also the stack draft and the amount of heat available for the waste-heat boiler to convert into steam.

As to the valve area required for a furnace, there is as much diversity in practice as there is with the other portions of the furnace. Figs. 160 and 161 are a graphical comparison of reversing valve practice, while Table 10 shows the same data in tabular form. The reference numbers in the table correspond with those given in preceding chapters.

TABLE 9

REVERSING VALVES

Nominal Diameter Valve			Nominal Area of Valve		
In	Ft	nun	Sq In	8(1 Ft,	rn^2
18	1.5Q	450	254	1,77	0.164
21	1.75	525	346	2.40	0.223
24	2.00	610	452	3.14	0.292
27	2.25	685	572	3.90	0.362,
80	2.50	760	706	4.91	0.456
33	2.75	840	855	5.93	0.548
36	3.00	915	1017	7.07	0.657
40	3.33	1000	1256	8.73	0.808
42	3.50	1070	1385	9.62	0.894
48	4.00	1220	1809	12.57	1.168
54	4.50	1370	2290	15.90	1.477
60	5.00	1525	2827	19.63	1.823
66	5.50	1675	3421	23.76	2.210
72	6.00	1830	4071	28.27	2.930